

Substitute for form 1449A&B/PTO				Complete if Known	
				<i>Application Number</i>	10/734,963
				<i>Filing Date</i>	December 11, 2003
				<i>First Named Inventor</i>	Chou, Hou-Pu
				<i>Art Unit</i>	1743
				<i>Examiner Name</i>	Sines, Brian J.
Sheet	1	of	17	<i>Attorney Docket Number</i>	020174-009630US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number Kind Code ² (if any)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA	RE.36,350		10-26-1999	Swedberg et al.	
AB	US-2001-0029983 A1		10-18-2001	Unger et al.	
AC	US-2001-0041357 A1		11-15-2001	Fouillet et al.	
AD	US-2002-0005354 A1		01-17-2002	Spence et al.	
AE	US-2002-0012926 A1		01-31-2002	Quake et al.	
AF	US-2002-0058332 A1		05-16-2002	Quake et al.	
AG	US-2002-0064885 A1		05-30-2002	Bedingham et al.	
AH	US-2002-0108096 A1		08-08-2002	Lee et al.	
AI	US-2002-0108097 A1		08-08-2002	Harris et al.	
AJ	US-2002-0109114 A1		08-15-2002	Driggs et al.	
AK	US-2002-0124896 A1		09-12-2002	O'Connor et al.	
AL	US-2002-0127736 A1		09-12-2002	Fu et al.	
AM	US-2002-0145231 A1		10-10-2002	Hansen et al.	
AN	US-2002-0158022 A1		10-31-2002	Huang et al.	
AO	US-2002-0197603 A1		12-26-2002	Chow et al.	
AP	US-2003-0019833 A1		01-30-2003	Unger et al.	
AQ	US-2003-0134129 A1		07-17-2003	Lammertink et al.	
AR	US-2003-0143120 A1		07-31-2003	Ruediger et al.	
AS	US-2003-0175947 A1		09-18-2003	Liu et al.	
AT	US-2003-0196695 A1		10-23-2003	O'Connor et al.	
AU	US-2004-0096960 A1		05-20-2004	Burd Mehta et al.	
AV	US-2004-0141887 A1		07-22-2004	Mainquist et al.	
AW	US-6,444,426 B1		09-03-2002	Short et al.	
AX	US-6,488,832 B2		12-03-2002	Heller	
AY	US-6,488,872 B1		12-03-2002	Beebe et al.	
AZ	US-6,500,323 B1		12-31-2002	Chow et al.	
BA	US-6,528,249 B1		03-04-2003	Short	
BB	US-6,533,914 B1		03-18-2003	Liu	
BC	US-6,537,798 B2		03-25-2003	Chow et al.	
BD	US-6,541,071 B1		04-01-2003	Bookbinder et al.	

Examiner Signature	/Brian Sines/ (06/20/2008)	Date Considered	
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BE	US-6,555,315 B1		04-29-2003	Short	
BF	US-6,563,111 B1		05-13-2003	Moon et al.	
BG	US-6,569,382 B1		05-27-2003	Edman et al.	
BH	US-6,581,441 B1		06-24-2003	Paul	
BI	US-6,596,545 B1		07-22-2003	Wagner et al.	
BJ	US-6,605,472 B1		08-12-2003	Skinner et al.	
BK	US-6,627,076 B2		09-30-2003	Griffiths	
BL	US-6,637,463 B1		10-26-2003	Lei et al.	
BM	US-6,645,432 B1		11-11-2003	Anderson et al.	
BN	US-6,662,818 B2		12-16-2003	Paul et al.	
BO	US-6,664,104 B2		12-16-2003	Pourahmadi et al.	
BP	US-6,677,131 B2		01-13-2004	Yuen	
BQ	US-6,689,473 B2		02-10-2004	Guire et al.	
BR	US-6,713,327 B2		03-30-2004	Leedy	
BS	US-6,716,378 B2		04-06-2004	Yang et al.	
BT	US-6,736,978 B1		05-18-2004	Porter et al.	
BU	US-6,749,814 B1		06-15-2004	Bergh et al.	
BV	US-6,752,922 B2		06-22-2004	Huang et al.	
BW	US-6,765,279 B2		07-20-2004	Leedy	
BX	US-6,829,753 B2		12-07-2004	Lee et al.	
BY	US-6,866,785 B2		03-15-2005	Zare et al.	
BZ	US-6,884,346 B2		04-26-2005	Zare et al.	
CA	US-6,885,982 B2		04-26-2005	Harris et al.	
CB	US-6,977,145 B2		12-20-2005	Fouillet et al.	
CC	US-				
CD	US-				

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
CE	DE	299	17 313	A1	02-15-2001	MWG Biotech AG	<input type="checkbox"/>
CF	EP	0 579	997	A1	01-26-1994	DuPont	<input type="checkbox"/>
CG	EP	1 065	378	A2	01-03-2001	California Institute Of Technology	<input type="checkbox"/>
CH	GB	2 097	692	A	11-10-1982	Patrick Douglas Shaw Stewart	<input type="checkbox"/>
CI	JP	9-043251			02-14-1997	Olympus Optical Co.	<input type="checkbox"/>
CJ	WO	00/53801		A1	09-14-2000	Merck Frost Canada Inc.	<input type="checkbox"/>
CK	WO	00/68414		A2	11-16-2000	Merck Frost Canada Inc.	<input type="checkbox"/>
CL	WO	00/70082		A1	11-23-2000	Seqr. Defence et al.	<input type="checkbox"/>
CM	WO	01/01025		A2	01-04-2001	California Institute Of Technology	<input type="checkbox"/>
CN	WO	01/07061		A1	02-01-2001	Smithkline Beecham Corp	<input type="checkbox"/>
CO	WO	01/24937		A2	04-12-2001	Pyrosequencing	<input type="checkbox"/>
CP	WO	01/32930		A1	05-10-2001	California Institute Of Technology	<input type="checkbox"/>
CQ	WO	01/34302			05-17-2001	Motorola, Inc. et al.	<input type="checkbox"/>
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CS	WO	01/53794		A1	07-26-2001	Northeastern University	<input type="checkbox"/>
CT	WO	01/69695			11-29-2001	Micronics Inc.	<input type="checkbox"/>
CU	WO	02/00343		A2	01-03-2002	Fluidigm Corporation	<input type="checkbox"/>
CV	WO	02/29106		A2	04-11-2002	California Institute Of Technology	<input type="checkbox"/>
CW	WO	02/30486		A2	04-18-2002	Fluidigm Corporation	<input type="checkbox"/>
CX	WO	02/40874		A1	05-23-2002	California Institute Of Technology	<input type="checkbox"/>
CY	WO	02/43615		A2	06-06-2002	California Institute Of Technology	<input type="checkbox"/>
CZ	WO	02/60582		A2	08-08-2002	Fluidigm Corporation	<input type="checkbox"/>
DA	WO	02/65005		A1	08-22-2002	California Institute Of Technology	<input type="checkbox"/>

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		Country Code ³	Number ⁴			
DB	WO	02/72892	A1	09-19-2002	California Institute Of Technology	<input type="checkbox"/>
DC	WO	02/81729	A2	10-17-2002	California Institute Of Technology	<input type="checkbox"/>
DD	WO	02/81935	A2	10-17-2002	Fluidigm Corporation	<input type="checkbox"/>
DE	WO	02/82047	A2	10-17-2002	California Institute Of Technology AND The Regents Of The University Of California	<input type="checkbox"/>
DF	WO	03/037781	A1	05-08-2003	Motorola, Inc.	<input type="checkbox"/>
DG	WO	03/48295	A1	06-12-2003	Fluidigm Corporation	<input type="checkbox"/>
DH	WO	90/15070	A1	12-13-1990	Affymax Technologies N.V.	<input type="checkbox"/>
DI	WO	92/16657	A1	10-01-1992	DuPont	<input type="checkbox"/>
DJ	WO	96/04547	A1	02-15-1996	Lockheed Martin Energy Systems, Inc.	<input type="checkbox"/>
DK	WO	96/27025	A1	09-06-1996	Rabani, Ely Michael	<input type="checkbox"/>
DL	WO	97/27324	A1	07-31-1997	Samoff David Res. Center	<input type="checkbox"/>
DM	WO	97/45644	A1	12-04-1997	The University Of Washington	<input type="checkbox"/>
DN	WO	98/00231	A1	01-08-1998	Caliper Technologies Corporation	<input type="checkbox"/>
DO	WO	98/04742	A1	02-05-1998	Genzyme Corp. et al.	<input type="checkbox"/>
DP	WO	98/10267	A1	03-12-1998	Technical University Of Denmark	<input type="checkbox"/>
DQ	WO	98/45481	A1	10-15-1998	Caliper Technologies Corp. et al.	<input type="checkbox"/>
DR	WO	98/52691	A1	11-26-1998	Alberta Research Council AND The University Of Alberta	<input type="checkbox"/>
DS	WO	99/14311	A1	03-25-1999	SmithKline Beecham Corp. et al.	<input type="checkbox"/>
DT	WO	99/36760	A1	07-22-1999	Genetic Microsystems, Inc.	<input type="checkbox"/>

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		T ⁶
	DU	WO	99/61888	A2	12-02-1999	California Institute of Technology et al. <input type="checkbox"/>
	DV					<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS		
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	DW	"Acousto-Optic Modulators" available at www.brimrose.com/acousto_modulators.html , 9-27-2000 <input type="checkbox"/>
	DX	ANDERSSON et al., "Consecutive Microcontact Printing - Ligands For Asymmetric Catalysis in Silicon Channel," Sensors & Actuators B, Vol. 3997, pp 1-7, 2001 <input type="checkbox"/>
	DY	Applied Biosystems, "TaqMan® PCR Reagent Kit With AmpliTaq Gold® DNA Polymerase Protocol," January 2003 <input type="checkbox"/>
	DZ	ASHKIN, A. et al., "Optical Trapping And Manipulation Of Viruses And Bacteria," Science, Vol. 235, pp. 1517-1520, March 20, 1987 <input type="checkbox"/>
	EA	AXELROD, DANIEL, "Cell-Substrate Contacts Illuminated By Total Internal Reflection Fluorescence," Journal of Cell Biology, Vol. 89, pp. 141-145, April 1981 <input type="checkbox"/>
	EB	BADER, JOEL S. et al., "DNA Transport By A Micromachined Brownian Ratchet Device," PNAS, Vol. 96, No. 23, pp. 13165-13169, November 9, 1999 <input type="checkbox"/>
	EC	BARRON, ANNELISE E. et al., "Capillary Electrophoresis Of DNA In Uncross-Linked Polymer Solutions," Journal of Chromatography A, Vol. 652, pp. 3-16, 1993 <input type="checkbox"/>

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	ED	BARRON, ANNELISE E. et al., "DNA Separations By Slab Gel And Capillary Electrophoresis - Theory And Practice," Separation and Purification Methods, Vol. 24, No. 1, pp. 1-18, 1995			<input type="checkbox"/>
	EE	BARRON, ANNELISE E. et al., "The Use Of Coated And Uncoated Capillaries For The Electrophoretic Separation Of DNA In Dilute Polymer-Solutions," Electrophoresis, Vol. 16, pp. 64-74, 1995			<input type="checkbox"/>
	EF	BELGRADER et al., "A Battery-Powered Notebook Thermal Cycler For Rapid Multiplex Real-Time PCR Analysis," Anal. Chem., Vol. 73, pp. 286-289, 2001			<input type="checkbox"/>
	EG	BELGRADER et al., "PCR Detection Of Bacteria In Seven Minutes," Science, 284(5413), pp. 449-450, 1999			<input type="checkbox"/>
	EH	BLANCH, HARVEY W. et al., Biochemical Engineering, pp. 2 cover pages and 305, 1996			<input type="checkbox"/>
	EI	BLANKENSTEIN, GERT et al., "Modular Concept Of A Laboratory On A Chip For Chemical And Biochemical Analysis," Biosensors & Bioelectronics, Vol. 13, Nos. 3-4, pp. 427-438, 1998			<input type="checkbox"/>
	EJ	BRASLAVSKY et al.; "Single Molecule Measurements of DNA Polymerase Activity: A Step Towards Single Molecule Sequencing", Biophysics Journal Abstracts Issue, 2002, p. 507A, Vol. 82, No. 1.			<input type="checkbox"/>
	EK	BRESLAUER, KENNETH J. et al., "Predicting DNA Duplex Stability From The Base Sequence," Proc. Natl. Acad. Sci. USA, Vol. 83, pp. 3746-3750, June 1986			<input type="checkbox"/>
	EL	BRODY, J. P. et al., "Low Reynolds Number Micro- Fluidic Devices," In Proc. Of Solid-State Sensor and Actuator Workshop, pp. 105-108, June 1996			<input type="checkbox"/>
	EM	BRODY, JAMES P. et al., "Significance And Statistical Errors In The Analysis Of DNA Microarray Data," PNAS, Vol. 99, No. 20, pp. 12975-12978, October 1, 2002			<input type="checkbox"/>
	EN	BRUSH, MICHAEL, "Automated Laboratories," The Scientist, Vol. 13, No. 4, 10 pages, February 15, 1999			<input type="checkbox"/>

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	EO	BULYK, MARTHA L. et al., "Quantifying DNA-Protein Interactions By Double-Stranded DNA Arrays," Nature Biotechnology, Vol. 17, pp. 573-577, June 1999			<input type="checkbox"/>
	EP	BURNS et al., "An Integrated Nanoliter DNA Analysis Device," Science, Vol. 282, pp. 484-487, 1998			<input type="checkbox"/>
	EQ	CHAUDHARI et al., "Transient Liquid Crystal Thermometry Of Microfabricated PCR Vessel Arrays," J. Microelectromechanical Systems, 7(4), pp. 345-355, 1998			<input type="checkbox"/>
	ER	CHEE, MARK et al., "Accessing Genetic Information With High-Density DNA Arrays," Science, Vol. 274, pp. 610-614, October 25, 1996			<input type="checkbox"/>
	ES	CHIEM, N. H. et al., "Microchip Systems For Immunoassay: An Integrated Immunoreactor With Electrophoretic Separation For Serum Theophylline Determination," Clinical Chemistry, Vol. 44, No. 3, p. 591, 1998			<input type="checkbox"/>
	ET	CHIOU et al., "A Closed-Cycle Capillary Polymerase Chain," Anal. Chem., Vol. 73, pp. 2018-2021, 2001			<input type="checkbox"/>
	EU	COSTERTON, J. WILLIAM et al., "Microbial Biofilms," Annu. Rev. Microbiol., Vol. 49, pp. 711-745, 1995			<input type="checkbox"/>
	EV	COWEN, S. et al., "An On-Chip Miniature Liquid Chromatography System: Design, Construction And Characterization," Micro Total Analysis Systems, Proceedings of the µTAS '94 Workshop, University of Twente, The Netherlands, pp. 2 cover pages and 295-298, 1995			<input type="checkbox"/>
	EW	DELISA, MATTHEW P. et al., "Mapping Stress-Induced Changes In Autoinducer AI-2 Production In Chemostat-Cultivated Escherichia coli K-12," Journal of Bacteriology, Vol. 183, No. 9, pp. 2918-2928, May 2001			<input type="checkbox"/>
	EX	DRMANAC, R. et al., "DNA Sequence Determination By Hybridization: A Strategy For Efficient Large-Scale Sequencing," Science, Vol. 260, pp. 1649-1652, June 11, 1993			<input type="checkbox"/>
	EY	DRMANAC, SNEZANA et al., "Accurate Sequencing By Hybridization For DNA Diagnostics And Individual Genomics," Nature Biotechnology, Vol. 16, pp 54-58, January 1998			<input type="checkbox"/>

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	EZ	EFFENHAUSER, CARLO S. et al., "Minaturizing A Whole Analytical Laboratory Down To Chip Size," American Laboratory, Vol. 26, No. 14, pp. cover, 15, 16, 18, 1994			<input type="checkbox"/>
	FA	EFFENHAUSER, CARLO S., "Integrated Chip-Based Microcolumn Separation Systems," Topics in Current Chemistry, Vol. 194, pp. cover, 52-82, 1998			<input type="checkbox"/>
	FB	ERLICH, H.A., PCR Technology, Basic Methodology: Stockton Press, New York, pp. 1-5, 1989			<input type="checkbox"/>
	FC	FELIX, ARTHUR M. et al., "Pegylated Peptides IV - Enhanced Biological Activity Of Site-Directed PEGylated GRF Analogs," International Journal of Peptide & Protein Research, Vol. 46, pp. 253-264, 1995			<input type="checkbox"/>
	FD	FELIX, Arthur M., "Site-Specific Poly(ethylene glycol)ylation Of Peptides," Poly(Ethylene Glycol) Chemistry and Biological Applications, ACS Symposium Series 680, pp. 2 cover pages, 218-238, 1997			<input type="checkbox"/>
	FE	FODOR, STEPHEN P. A. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, Vol. 251, pp. 767-773, February 15, 1991			<input type="checkbox"/>
	FF	FOTIN, ALEXANDER V. et al., "Parallel Thermodynamic Analysis Of Duplexes On Oligodeoxynucleotide Microchips," Nucleic Acids Research, Vol. 26, No. 6, pp. 1515-1521, 1998			<input type="checkbox"/>
	FG	GENG, XINDU et al., "Retention Model For Proteins In Reversed-Phase Liquid Chromatography," Journal of Chromatography, Vol. 296, pp. 15-30, 1984			<input type="checkbox"/>
	FH	GOMBOTZ, W. R. et al., "Pegylation: A Tool To Enhance Protein Delivery," Abstracts of Papers, American Chemical Society, Vol. 217, Part 2, 2 pages, March 21-25, 1999			<input type="checkbox"/>
	FI	GRANJEAUD, SAMUEL et al., "Expression Profiling: DNA Arrays In Many Guises," BioEssays, Vol. 21, pp. 781-790, 1999			<input type="checkbox"/>
	FJ	GUERRA, PATRICIA I. et al., "PEGylation Prevents The N-Terminal Degradation Of Megakaryocyte Growth And Development Factor," Pharmaceutical Research, Vol. 15, No. 12, pp. 1822-1827, 1998			<input type="checkbox"/>
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	FK	GUNDERSON, KEVIN L et al., "Mutation Detection By Ligation To Complete n-mer DNA Arrays," Genome Research, Vol. 8, pp. 1142-1153, 1998			<input type="checkbox"/>
	FL	GUO, ZHEN et al., "Enhanced Discrimination Of Single Nucleotide Polymorphisms By Artificial Mismatch Hybridization," Nature Biotechnology, Vol. 15, pp. 331-335, April 1997			<input type="checkbox"/>
	FM	HANCOCK, ROBERT E. W., "A Brief On Bacterial Biofilms," Nature Genetics, Vol. 29, p. 360, December 2001			<input type="checkbox"/>
	FN	HARRISON, D. JED et al., "Integration Of Analytical Systems Incorporating Chemical Reactions And Electrophoretic Separation," Micro Total Analysis Systems, Proceedings of the µTAS '94 Workshop, University of Twente, The Netherlands, pp. 2 cover pages and 105-111, 1995			<input type="checkbox"/>
	FO	HEO, JINSEOK et al., "A Microfluidic Bioreactor Based On Hydrogel-Entrapped <i>E. coli</i> : Cell Viability, Lysis, And Intracellular Enzyme Reactions," Analytical Chemistry, Vol. 75, No. 1, pages 22-26, January 1, 2003			<input type="checkbox"/>
	FP	HERBERT, D., "Continuous Culture Of Bacteria," The Journal of General Microbiology, Vol. 15, pp. 2 cover pages and iv, 1956			<input type="checkbox"/>
	FQ	HERBERT, D., "Continuous Culture Of Bacteria: Principles And Applications," Chemistry and Industry, pp. 381, March 29, 1958			<input type="checkbox"/>
	FR	HOHEISEL, JORG D., "Sequence-Independent And Linear Variation Of Oligonucleotide DNA Binding Stabilities," Nucleic Acid Research, Vol. 24, No. 3, pp. 430-432, 1996			<input type="checkbox"/>
	FS	HONG et al., "Integration Of Gene Amplification And Capillary Gel Electrophoresis On A Polydimethylsiloxane-Glass Hybrid Microchip," Electrophoresis, Vol. 22, pp. 328-333, 2001			<input type="checkbox"/>
	FT	HONG, JONG WOOK et al., "A Nanoliter-Scale Nucleic Acid Processor With Parallel Architecture," Nature Biotechnology, Vol. 22, No. 4, pp. 1-5, April 2004			<input type="checkbox"/>

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	FU	HOPFGARTNER, GERARD et al., "Exact Mass Measurement Of Product Ions For The Structural Elucidation Of Drug Metabolites With A Tandem Quadrupole Orthogonal-Acceleration Time-Of-Flight Mass Spectrometer," Journal of The American Society for Mass Spectrometry, Vol. 10, pp. cover, 1305-1314, December 1999	<input type="checkbox"/>
	FV	IBRAHIM et al., "Real-Time Microchip PCR For Detecting Single-Base Differences In Viral And Human DNA," Anal. Chem., Vol. 70, pp. 2013-2017, 1998	<input type="checkbox"/>
	FW	IGLOI, GABOR L., "Variability In The Stability Of DNA-Peptide Nucleic Acid (PNA) Single-Base Mismatched Duplexes: Real-Time Hybridization During Affinity Electrophoresis In PNA-Containing Gels," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 8562-8567, July 1998	<input type="checkbox"/>
	FX	INGRAHAM, JOHN L. et al., Growth Of The Bacterial Cell, pp. 3 cover pages and 230, 1983	<input type="checkbox"/>
	FY	JACKMAN, REBECCA J. et al., "Design And Fabrication Of Topologically Complex, Three-Dimensional Microstructures," Science, Vol. 280, pp. 2089-2091, June 26, 1998	<input type="checkbox"/>
	FZ	JACOBSON, STEPHEN C. et al., "Open Channel Electrochromatography On A Microchip," Analytical Chemistry, Vol. 66, No. 14, pp. 2369-2373, July 15, 1994	<input type="checkbox"/>
	GA	JANNASCH, H. W. et al., "Experimental Bacterial Ecology Studied In Continuous Culture," Advances in Microbial Physiology, Vol. 11, pp. cover and 165-212, 1974	<input type="checkbox"/>
	GB	KAMENTSKY, LOUIS A. et al., "Spectrophotometer: New Instrument For Ultrarapid Cell Analysis," Science, Vol. 150, pp. 630-631, October 29, 1965	<input type="checkbox"/>
	GC	KANE et al., "Finite element analysis of nonsmooth contact", Computer Methods in Applied Mechanics and Engineering, 180(1-2):1-26 (1999)	<input type="checkbox"/>
	GD	KANE, R. S. et al., "Patterning Proteins And Cells Using Soft Lithography," Biomaterials, Vol. 20, pp. 2363-2376, 1999	<input type="checkbox"/>

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	GE	KHANDURINA et al., "Integrated System For Rapid PCR-Based DNA Analysis In Microfluidic Devices," <i>Anal. Chem.</i> , Vol. 72, pp. 2995-3000, 2000			<input type="checkbox"/>
	GF	KODERA, YOH et al., "Pegylation Of Proteins And Bioactive Substances For Medical And Technical Applications," <i>Prog. Polym. Sci.</i> , Vol. 23, pp. 1233-1271, 1998			<input type="checkbox"/>
	GG	KUTYAVIN, IGOR V. et al., "3'-Minor Groove Binder-DNA Probes Increase Sequence Specificity At PCR Extension Temperatures," <i>Nucleic Acids Research</i> , Vol. 28, No. 2, pp. 655-661, 2000			<input type="checkbox"/>
	GH	LANE, P. G., "Analysis Of A Continuous-Culture Technique For The Selection Of Mutants Tolerant To Extreme Environmental Stress," <i>Biotechnology and Bioengineering</i> , Vol. 65, No. 4, pp. 397-406, November 20, 1999			<input type="checkbox"/>
	GI	LAWRENCE, J. R. et al., "Optical Sectioning Of Microbial Biofilms," <i>Journal of Bacteriology</i> , Vol. 173, No. 20, pp. 6558-6567, October 1991			<input type="checkbox"/>
	GJ	LEE, L. STANFORD et al., "Prolonged Circulating Lives Of Single-Chain Fv Proteins Conjugated With Polyethylene Glycol: A Comparison Of Conjugation Chemistries And Compounds," <i>Bioconjugate Chem.</i> , Vol. 10, pp. 973-981, 1999			<input type="checkbox"/>
	GK	LIU, JIAN et al., "Solving The 'World-To-Chip' Interface Problem With A Microfluidic Matrix," <i>Analytical Chemistry</i> , Vol. 75, No. 18, pp. 4718-4723, September 15, 2003			<input type="checkbox"/>
	GL	LORENZ, PATRICK et al., "Screening For Novel Enzymes For Biocatalytic Processes: Accessing The Metagenome As A Resource Of Novel Functional Sequence Space," <i>Current Opinion in Biotechnology</i> , Vol. 13, pp. 572-577, 2002			<input type="checkbox"/>
	GM	MAIER, ELMAR et al., "Automated Array Technologies For Gene Expression Profiling," <i>DDT</i> , Vol. 2, No. 8, pp. 315-324, August 1997			<input type="checkbox"/>
	GN	MALDONADO-RODRIGUEZ, ROGELIO et al., "Mutation Detection By Stacking Hybridization On Genosensor Arrays," <i>Molecular Biotechnology</i> , Vol. 11, pp. 13-25, 2000			<input type="checkbox"/>

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	GO	MAREŠOVÁ, H. et al., "A Chemostat Culture As A Tool For The Improvement Of A Recombinant <i>E. coli</i> Strain Over-Producing Penicillin G Acylase," Biotechnology And Bioengineering, Vol. 75, No. 1, pp. 46-52, October 5, 2001			<input type="checkbox"/>
	GP	MARTON, MATTHEW J. et al., "Drug Target Validation And Identification Of Secondary Drug Target Effects Using DNA Microarrays," Nature Medicine, Vol. 4, No. 11, pp. 1293-1301, November 1998			<input type="checkbox"/>
	GQ	MASTRANGELO, C. H. et al., "Vacuum-Sealed Silicon Micromachined Incandescent Light Source," IEDM, pp. 503-506, 1989			<input type="checkbox"/>
	GR	MENCHEN, STEVE et al., "Flowable Networks As DNA Sequencing Media In Capillary Columns," Electrophoresis, Vol. 17, pp. 1451-1459, 1996			<input type="checkbox"/>
	GS	MONOD, JACQUES, "The Growth Of Bacterial Cultures," Annual Review of Microbiology, Vol. III, pp. cover and 371-394, 1949			<input type="checkbox"/>
	GT	NAKANO et al., "High Speed Polymerase Chain Reaction In Constant Flow," Biosci. Biotech. Biochem., 58(2), pp. 349-352, 1994			<input type="checkbox"/>
	GU	NIELSEN, JENS et al., Bioreaction Engineering Principles, Second Edition, pp. 2 cover pages and 42-45, 2003			<input type="checkbox"/>
	GV	NOLAN, JOHN P. et al., "The Emergence Of Flow Cytometry For Sensitive, Real-Time Measurements Of Molecular Interactions," Nature Biotechnology, Vol. 16, pp. 633-638, July 1998			<input type="checkbox"/>
	GW	NOVICK, AARON et al., "Description Of The Chemostat," Science, Vol. 112, pp. 715-716, December 15, 1950			<input type="checkbox"/>
	GX	NOVICK, AARON et al., "Experiments With The Chemostat On Spontaneous Mutations Of Bacteria," Proc. N. A. S., Vol. 36, pp. 708-719, 1950			<input type="checkbox"/>
	GY	OAKLEY and Knight, "Adaptive dynamic relaxation algorithm for non-linear hyperelastic structures", Computer Methods in Applied Mechanics and Engineering, 126:67-89 (1995).			<input type="checkbox"/>
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	GZ	OGDEN, "Elastic Deformations of Rubberlike Solids", in <i>Mechanics of Solids</i> , pp. 499-537 (1982)			<input type="checkbox"/>
	HA	PERSSON, BJORN et al., "Analysis Of Oligonucleotide Probe Affinities Using Surface Plasmon Resonance: A Means For Mutational Scanning," <i>Analytical Biochemistry</i> , Vol. 246, pp. 34-44, 1997			<input type="checkbox"/>
	HB	Phillips, W.C. and Rayment, I. "A systematic method for aligning double focusing mirrors." <i>Methods in Enzymology</i> , 1985, Vol. 114 (Wyckoff, Hirs and Timashoff, eds.), 316-329, Academic Press.			<input type="checkbox"/>
	HC	POPLAWSKI, M. E. et al., "A Simple Packaging Process For Chemical Sensors," <i>Solid-State Sensor and Actuator Workshop</i> , Hilton Head, South Carolina, pp. 25-28, June 13-16, 1994			<input type="checkbox"/>
	HD	QU, MINGBO et al., "Toxicity And Biodegradation Of Formaldehyde In Anaerobic Methanogenic Culture," <i>Biotechnology and Bioengineering</i> , Vol. 55, No. 5, pp. 727-736, September 5, 1997			<input type="checkbox"/>
	HE	RONDON, MICHELLE R. et al., "Cloning The Soil Metagenome: A Strategy For Accessing The Genetic And Functional Diversity Of Uncultured Microorganism," <i>Applied and Environmental Microbiology</i> , pp. 2541-2547, June 2000			<input type="checkbox"/>
	HF	ROTMAN, BORIS, "A Simplified Device For Continuous Growth Of Microorganisms," <i>Journal of Bacteriology</i> , Vol. 70, pp. 485-486, 1955			<input type="checkbox"/>
	HG	SCHENA, MARK et al., "Quantitative Monitoring Of Gene Expression Patterns With A Complementary DNA Microarray," <i>Science</i> , Vol. 270, pp. 467-470, October 20, 1995			<input type="checkbox"/>
	HH	SCHLOSS, PATRICK D. et al., "Biotechnological Prospects From Metagenomics," <i>Current Opinion in Biotechnology</i> , Vol. 14, pp. 303-310, 2003			<input type="checkbox"/>
	HI	SCHULLEK, JOHN R., "A High-Density Screening Format For Encoded Combinatorial Libraries: Assay Miniaturization And Its Application To Enzymatic Reactions," <i>Analytical Biochemistry</i> , Vol. 246, pp. 20-29, 1997			<input type="checkbox"/>

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	HJ	SHULER, MICHAEL L. et al., "Chapter 6 - How Cells Grow," Bioprocess Engineering Basic Concepts, Second Edition, pp. 2 cover pages and 155-200, 2002			<input type="checkbox"/>
	HK	SKLAR, LARRY A. et al., "Sample Handling For Kinetics And Molecular Assembly In Flow Cytometry," SPIE, Vol. 3256, pp. 144-153, 1998			<input type="checkbox"/>
	HL	SOSNOWSKI, RONALD G. et al., "Rapid Determination Of Single Base Mismatch Mutations In DNA Hybrids By Direct Electric Field Control," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997			<input type="checkbox"/>
	HM	SOUTHERN, E. M. et al., "Analyzing And Comparing Nucleic Acid Sequences By Hybridization To Arrays Of Oligonucleotides: Evaluation Using Experimental Models," Genomics, Vol. 13, pp. 1008-1017, 1992			<input type="checkbox"/>
	HN	SPELLMAN, PAUL T. et al., "Comprehensive Identification Of Cell Cycle-Regulated Genes Of The Yeast <i>Saccharomyces cerevisiae</i> By Microarray Hybridization," Molecular Biology of the Cell, Vol. 9, pp. 3273-3297, December 1998			<input type="checkbox"/>
	HO	SPICER, C. C., "The Theory Of Bacterial Constant Growth Apparatus," Biometrics, pp. 225-230, June 1955			<input type="checkbox"/>
	HP	STOMAKHIN, ANDREY A. et al., "DNA Sequence Analysis By Hybridization With Oligonucleotide Microchips: MALDI Mass Spectrometry Identification Of 5mers Contiguously Stacked To Microchip Oligonucleotides," Nucleic Acids Research, Vol. 28, No. 5, pp. 1193-1198, 2000			<input type="checkbox"/>
	HQ	STUDER et al., "Nanoebossing of thermoplastic polymers for microfluidic applications", Applied Physics Letters 80:3614-16 (2002)			<input type="checkbox"/>
	HR	SWART, REMCO et al., "Recent Progress In Open Tubular Liquid Chromatography," Trends in Analytical Chemistry, Vol. 16, No. 6, pp. 332-342, 1997			<input type="checkbox"/>
	HS	TAYLOR, ANNE M. et al., "Microfluidic Multicompartment Device For Neuroscience Research," Langmuir, Vol. 19, pp. 1551-1556, 2003			<input type="checkbox"/>
	HT	TERRY, STEPHEN C. et al., "A Gas Chromatographic Air Analyzer Fabricated On A Silicon Wafer," IEEE Transactions on Electron Devices, Vol. ED-26, No. 12, pp. 1880-1886, December 1979			<input type="checkbox"/>

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	HU	THOMPSON, H. GARRETT R. et al., "Identification And Confirmation Of A Module Of Coexpressed Genes," <i>Genome Research</i> , Vol. 12, pp. 1517-1522, 2002			<input type="checkbox"/>
	HV	TOUSSAINT, ARIANE et al., "A New Evaluation Of Our Life-Support System," <i>EMBO Reports</i> , Vol. 4, No. 9, pp. 820-824, 2003			<input type="checkbox"/>
	HW	TYAGI et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," <i>Nature Biotechnology</i> , 14:303-308 (1996).			<input type="checkbox"/>
	HX	UMDANHOWAR, P. B. et al., "Monodisperse Emulsion Generation Via Drop Break Off In A Coflowing Stream," <i>Langmuir</i> , Vol. 16, pp. 347-351, 2000			<input type="checkbox"/>
	HY	UNDERWOOD et al., "Dynamic relaxation", in <i>Computational Methods for Transient Dynamic Analysis</i> , Belytschko and Hughes, eds., pp. 245-265, Elsevier Science Publishers, Amsterdam (1983).			<input type="checkbox"/>
	HZ	VAHEY, PAUL G. et al., "Development Of A Positive Pressure Driven Micro-Fabricated Liquid Chromatographic Analyzer Through Rapid-Prototyping With Poly(dimethylsiloxane) Optimizing Chromatographic Efficiency With Sub-Nanoliter Injections," <i>Talanta</i> , Vol. 51, pp. 1205-1212, 2000			<input type="checkbox"/>
	IA	VAN DAM, R. MICHAEL et al., "Gene Expression Analysis With Universal n-mer Arrays," <i>Genome Research</i> , Vol. 12, pp. 145-152, 2002			<input type="checkbox"/>
	IB	VAN ORDEN, ALAN et al., "High-Throughput Flow Cytometric DNA Fragment Sizing," <i>Anal. Chem.</i> , Vol. 72, No. 1, pp. 37-41, January 1, 2000			<input type="checkbox"/>
	IC	VERONESE, F. M. et al., "Influence Of PEGylation On The Release Of Low And High Molecular-Weight Proteins From PVA Matrices," <i>Journal of Bioactive and Compatible Polymers</i> , Vol. 14, pp. 315-330, July 1999			<input type="checkbox"/>
	ID	VERONESE, FRANCESCO M., "Peptide And Protein PEGylation: A Review Of Problems And Solutions," <i>Biomaterials</i> , Vol. 22, pp. 405-417, 2001			<input type="checkbox"/>
	IE	VOGELSTEIN, BERT et al., "Digital PCR," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 9236-9241, August 1999			<input type="checkbox"/>

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	IF	WARD, KEITH B. et al., "Automatic Preparation Of Protein Crystals Using Laboratory Robotics And Automated Visual Inspection," Journal of Crystal Growth, Vol. 90, pp. 325-339, 1988			<input type="checkbox"/>
	IG	WATERS, L. C. et al., "Microchip Devices For Cell Lysis, Multiplex PCR Amplification, And Electrophoretic Sizing," Analytical Chemistry, Vol. 70, No. 1, pp. 158-162, January 1, 1998			<input type="checkbox"/>
	IH	WEBSTER, J. R. et al., "Monolithic Capillary Gel Electrophoresis Stage With On-Chip Detector," IEEE, pp. 491-496, 1996			<input type="checkbox"/>
	II	WEIGL, BERNHARD H., "Microfluidics-Based Lab-On-A-Chip Systems," IVD Technology Magazine, 8 pages, November/December 2000			<input type="checkbox"/>
	IJ	WHELEN, A. CHRISTIAN et al., "The Role Of Nucleic Acid Amplification And Detection In The Clinical Microbiology Laboratory," Annu. Rev. Microbiol., Vol. 50, pp. 349-373, 1996			<input type="checkbox"/>
	IK	WHITESIDES, GEORGE M. et al., "Flexible Methods For Microfluidics," Physics Today, pp. 42-48, June 2001			<input type="checkbox"/>
	IL	WIEBE, MARILYN G. et al., "Evolution Of A Recombinant (Glucoamylase-Producing) Strain Of <i>Fusarium venenatum</i> A3/5 In Chemostat Culture," Biotechnology and Bioengineering, Vol. 73, No. 2, pp. 146-156, April 20, 2001			<input type="checkbox"/>
	IM	WOOLEY et al., "Functional Integration Of PCR Amplification And Capillary Electrophoresis In A Microfabricated DNA Analysis Device," Anal. Chem., Vol. 68, pp. 4081-4086, 1996			<input type="checkbox"/>
	IN	WOOLEY, A. T. et al., "Capillary Electrophoresis Chips With Integrated Electrochemical Detection," Analytical Chemistry, Vol. 70, No. 4, pp. 684-688, February 15, 1998			<input type="checkbox"/>
	IO	WU, CHUNHUNG et al., "Viscosity-Adjustable Block Copolymer For DNA Separation By Capillary Electrophoresis," Electrophoresis, Vol. 19, pp. 231-241, 1998			<input type="checkbox"/>
	IP	WU, SHUYUN et al., "MEMS Flow Sensors For Nano-Fluidic Applications," Sensors and Actuators A, Vol. 89, pp. 152-158, 2001			<input type="checkbox"/>

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				<i>Examiner Name</i>	Sines, Brian J.
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	IQ	YERSHOV, GENNADY et al., "DNA Analysis And Diagnostics On Oligonucleotide Microchips," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 4913-4918, May 1996			<input type="checkbox"/>
	IR	YOKOBAYASHI, YOHEI et al., "Evolutionary Design Of Genetic Circuits And Cell-Cell Communications," Advances in Complex Systems, Vol. 6, No. 1, pp. 37-45, 2003			<input type="checkbox"/>
	IS	ZALIPSKY, SAMUEL, "Chemistry Of Polyethylene Glycol Conjugates With Biologically Active Molecules," Advanced Drug Delivery Reviews, Vol. 16, pp. 157-182, 1995			<input type="checkbox"/>
	IT	ZDEBLICK, MARK J. et al., "A Microminiature Electric-To-Fluidic Valve," Transducers '87, Proceedings of the 4th International Conference on Solid-State Sensors and Actuators, reprinted in Micromechanics and MEMS Classic and Seminal Papers to 1990, pp. 2 cover pages, 437-439, June 1987			<input type="checkbox"/>
	IU	ZHENG, BO et al., "A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System For Evaluating Protein Crystallization Conditions By Microbatch And Vapor-Diffusion Methods With On-Chip X-Ray Diffraction," Angew. Chem., pp 1-4, 2004			<input type="checkbox"/>
	IV	ZIAUDDIN, JUNAID et al., "Microarrays Of Cells Expressing Defined cDNAs," Nature, Vol. 411, pp. 107-110, May 3, 2001			<input type="checkbox"/>

Examiner Signature	/Brian Sines/ (06/20/2008)	Date Considered
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